

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A fire extinguisher, comprising:
 - (a) a tank; and
 - (b) a gas generator breech connected to said tank, wherein a hermetically sealed gas generator cartridge is provided within said gas generator breech, and wherein the gas generator cartridge comprises a perforated tube containing gas generating propellant interior to said cartridge.
2. (Original) The fire extinguisher of Claim 1, wherein said tank comprises a fire suppressant.
3. (Original) The fire extinguisher of Claim 2, wherein the fire suppressant comprises at least one of a perfluorocarbon or hydrofluorocarbon fire suppressant.
4. (Original) The fire extinguisher of Claim 2, wherein the fire suppressant comprises 1,1,1,2,3,3,3-heptafluoropropane.
5. (Original) The fire extinguisher of Claim 2, wherein the fire suppressant comprises a water-based fire suppressant.
6. (Original) The fire extinguisher of Claim 2, wherein the fire suppressant comprises water, potassium acetate, and a surfactant.
7. (Original) The fire extinguisher of Claim 1, wherein the gas generator cartridge comprises a propellant comprising a nitrogen-containing fuel, an oxidizer, and a coolant.
8. (Original) The fire extinguisher of Claim 1, wherein the gas generator cartridge comprises a propellant comprising 5-aminotetrazole, strontium nitrate, and magnesium carbonate.

9. (Original) The fire extinguisher of Claim 1, wherein said gas generator cartridge comprises an aluminum container.

10. (Original) The fire extinguisher of Claim 1, wherein said gas generator cartridge comprises a steel container.

11. (Original) The fire extinguisher of Claim 1, wherein said gas generator cartridge comprises a precursor of a beverage or food can.

12. (Original) The fire extinguisher of Claim 1, wherein said gas generator cartridge comprises a precursor of a soda pop can.

13. (Original) The fire extinguisher of Claim 1, wherein said gas generator cartridge comprises a lid, wherein said lid comprises an area of localized weakness.

14. (Original) The fire extinguisher of Claim 1, wherein said gas generator cartridge comprises a lid, wherein said lid does not have an area of localized weakness.

15. (Original) The fire extinguisher of Claim 14, further comprising a cover having an initiator assembly in proximity to the area of the gas generator cartridge lid.

16. (Original) The fire extinguisher of Claim 1, further comprising a burst disk or release poppet at an outlet to said tank.

17. (Original) The fire extinguisher of Claim 16, further comprising a nozzle or distribution system downstream of said burst disk or release poppet.

18. (Original) The fire extinguisher of Claim 1, wherein the gas generator breech comprises a cylindrical sleeve and end plate, said sleeve and end plate are interior to said tank.

19. (Original) The fire extinguisher of Claim 18, wherein the gas generator breech comprises hole(s) in said cylindrical sleeve or end plate to provide passage of combustion gases.

20. (Original) The fire extinguisher of Claim 1, wherein the gas generator breech comprises an annular gap partly along the side of the gas generator breech, a bottom gap at the breech base, and a hole from the breech interior to the bottom gap, said gaps and hole to provide a passage for combustion gases.

21. (Original) The fire extinguisher of Claim 1, wherein the gas generator cartridge has a burst pressure in the range of about 500 psig to about 4000 psig.

22. (Original) The fire extinguisher of Claim 1, wherein the gas generator breech does not have a burst shim or a release poppet.

23. (Original) The fire extinguisher of Claim 1, wherein the gas generator cartridge exterior is open to the tank interior.

24. (Currently amended) ~~[[The]] A fire extinguisher of Claim 1, comprising:~~
~~(a) a tank; and~~
~~(b) a gas generator breech connected to said tank, wherein a hermetically sealed gas generator cartridge is provided within said gas generator breech, and~~ wherein the gas generator cartridge comprises a precursor of a beverage or food can.

25. (Currently amended) ~~[[The]] A fire extinguisher of Claim 1, comprising:~~
~~(a) a tank; and~~
~~(b) a gas generator breech connected to said tank, wherein a hermetically sealed gas generator cartridge is provided within said gas generator breech, and~~ wherein the gas generator cartridge comprises a precursor of a soda pop can.

26-39. (Canceled)

40. (Currently amended) A method for making a fire extinguisher, comprising installing a hermetically sealed gas generator cartridge in the gas generator breech of a fire extinguisher tank so that the gas generator cartridge exterior is open to the tank interior, wherein

the gas generator cartridge comprises a perforated tube containing gas generating propellant interior to said cartridge.

41-43. (Canceled)

44. (Original) A method for making a fire extinguisher, comprising:

(a) obtaining a precursor container of a beverage or food can having a propellant hermetically sealed therein; and

(b) installing said hermetically sealed precursor container in the gas generator breech of a fire extinguisher tank.

45. (Original) The fire extinguisher of Claim 44, wherein said precursor container is of a soda pop can.

46. (Original) A fire extinguisher, comprising a tank, wherein a hermetically sealed, aluminum, gas generator cartridge is provided within said tank.

47. (Original) A fire extinguisher, comprising a tank, wherein a hermetically sealed, precursor container of a beverage or food can is provided within said tank.

48. (Original) The fire extinguisher of Claim 47, wherein said precursor container is of a soda pop can.

49-51. (Canceled)

52. (Currently amended) A fire extinguisher, comprising:

(a) a tank having a fire suppressant; and

(b) a gas generator breech connected to said tank, wherein said breech is configured to allow gas passage from the interior of the breech to the interior of the tank,

wherein a hermetically sealed gas generator cartridge is provided within said gas generator breech, and wherein the gas generator cartridge comprises a perforated tube containing gas generating propellant interior to said cartridge.

53. (Original) The fire extinguisher of Claim 52, wherein said breech does not have a shim or release poppet in the path of the gas passage.

54. (Currently amended) A fire extinguisher, comprising:

- (a) a tank having a fire suppressant; [[and]]
- (b) a gas generator breech connected to said tank; and
- (c) a gas generator cartridge with a container configured to be burst at a predetermined pressure,

wherein said breech does not have a shim or release poppet, and wherein the gas generator cartridge comprises a perforated tube containing gas generating propellant interior to said cartridge.